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Barbara Haggerty

Name

Barbara Haggerty
Signature

JC929 U.S. PTO
10/07/4369
02/12/02



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Application Of: Probst

For: Current Collector Having Non-Symmetric Grid Pattern
Converging At A Common Focal Point

the specification of which is being transmitted herewith.

Assistant Commissioner of Patents
Washington, D.C. 20231

**INFORMATION DISCLOSURE STATEMENT
Pursuant to 37 CFR 1.56**

1. Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR 1.56.

The filing of this Information Disclosure Statement (IDS) shall not be construed as a representation that a search has been made (37 CFR 1.56(g)), an admission that the information cited is, or is considered to be material to patentability or that no other material information exists.

IDS For: Current Collector Having Non-Symmetric
Grid Pattern Converging At A Common Focal
Point

Inventor: Probst

The filing of this IDS shall not be construed as an admission against interest in any manner (Notice of Jan. 9, 1992, 1135 O.G. 13-25, at 25).

2. Attached is Form PTO-1449. Legible copies of all items listed accompany this IDS.

3. A concise explanation of the possible relevance of the listed information items is as follows:

U.S. Patent No. 4,221,852 to Qureshi related to minimizing the internal resistant of battery grids and shows a grid in which the solid elements converge at a common lug 21.

U.S. Patent No. 4,477,546 to Wheeler et al. describes a battery lattice in which the solid elements converge toward a tab 32 for improving current density.

U.S. Patent No. 5,434,019 to Zhang et al. discloses an electrode plate for solving problems of high internal resistance. The plate is described as net like. The net converges toward a common ear 10 of the electrode plate.

Other patents which show current collectors having conductor elements converging at a tab include U.S. Patent Nos. 2,503,970 to Rupp, 4,118,553 to Buckenthal et al., 4,320,183 to Qureshi, 4,528,255 to Hayes et al., 5,498,496 to Sasaki et al. and 5,582,936 to Mrotek et al. Further, various ones of the

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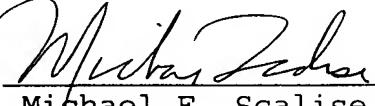
Inventor: Probst

prior art patents show current collectors having conductor elements converging at a focal point located in the interior of the current collector. These include U.S. Patent Nos. 1,528,963 to Adams et al., 3,490,954 to Babusci et al. and 4,250,235 to DuPont et al.

4. The remaining patents on the attached Form PTO 1449 were located during a patentability search.

5. The person making this statement is the agent who signs below, who makes this statement on the information supplied by the inventors and the information in the agent's file.

Respectfully Submitted,

By: 
Michael F. Scalise
Reg. No. 34,920

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February 12, 2002

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Approved for use through 10/31/2002, OMB 0651-0031

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

Sheet 4 of 4

Application Number

Filing Date

First Named Inventor

Group Art Unit

Examiner Name

02/12/2002

C929 U.5 PTO
L10/074369
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of 4

Attorney Docket Number 04645.1056

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No. 1	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T6
		Kind Code	Office Number <i>(if known)</i>				

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

BFLODOCS: 649293